

Outlook

THE UNIVERSITY OF MARYLAND FACULTY AND STAFF WEEKLY NEWSPAPER
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Mote Stresses Drive Toward Greatness in Inaugural Address



Above, President Mote shares his vision for the University of Maryland during his inaugural address last Friday.

Right, Mote greets his family during the ceremony.



C.D. (Dan) Mote Jr. officially kicked off his tenure as 27th president of the University of Maryland last Friday by outlining his vision for the University of Maryland as a "great research university" and identifying three steps the university must take to realize that vision.

In his inauguration speech before a packed house at Memorial Chapel, Mote said, "A decade ago we dreamed the impossible—the great research university, then we sought the improbable—the great research university, and soon we will grasp the inevitable—the great research university."

Mote said the University of Maryland is ready to fulfill the destiny declared by founder Charles Benedict Calvert 140 years ago: "We will have the finest institution in the world."

Maryland will take "its rightful place in the long line of universities that have transfigured society," Mote said.

"Some of you may ask why we have set our aspirations so high. And my answer would be that this choice is not ours. For the University of Maryland, this is not our goal, this is our destiny."

Mote, who has been president since last September, said the university needs to take three specific steps to reach its destiny:

- Build a culture of excellence across the university,
- Enrich the educational experience for all students,
- Build the Maryland Family of alumni and friends.

Historically, Mote said, "great universities have helped society define, articulate and achieve the next stage of progress. In many ways, these universities have defined their times," from the education of clergy and philosophers a millennium ago, to the development of modern science three centuries ago and the establishment of the service-orient-

ed land-grant institutions in the last century.

The current iteration is the modern research university, born half a century ago in the aftermath of World War II to be "an instrument of the national research policy that transfigured our society."

The modern research university, rooted in the discovery of knowledge in every part of the campus, "interweaves research and teaching" in all its programs, Mote said. "Research and teaching are inseparable; they are a continuum."

Mote warned that "we must be ever vigilant about maintaining the programmatic balance between the technological fields and the humanities" to avoid becoming either a pure technical institute or a liberal arts college. "The balance between technology and the humanities is fundamental to a great research university's

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University Announces Two Gifts Totaling \$21 Million

On the eve of his inauguration as president of the University of Maryland, Dan Mote announced that two long-time friends and alumni of the university have pledged \$21 million in new gifts that will benefit the university's new performing arts center and the building that houses the business and public affairs schools.

Virginia artist and collector Clarice Smith has donated \$15 million to establish an endowment to support the Clarice Smith Center for the Performing Arts, and New York businessman Leo Van Munching Jr. has donated \$6 million to help finance additions to Van Munching Hall, home of the Robert H. Smith School of Business and the Maryland School of Public Affairs.

"The key to the university's rapid rise to prominence is the strength of the relationships it builds with alumni and friends," Mote says. "Those relationships got significantly stronger today with these two monumental gifts. The ongoing generosity of the Smith and Van Munching families will help secure Maryland's place among the great universities."

Smith's gift, coupled with her husband's \$15 million gift last year to name the business school, lifts her family's donations to the university to more than \$30 million, making the Smiths the largest donors ever to a public university in the state of Maryland. In recognition of her long-time support for the university and the arts, the university will recommend to the Board of Regents that the new facility will be named the Clarice Smith Center for the Performing Arts.

"I am thrilled to be identified with the Performing Arts Center, and I look forward to my family's ongoing relationship with this inspiring edifice of learning and artistic expression," Smith says.

The Clarice Smith Center for the Performing Arts, now under construction on the west side of the campus, will house the university's dance, music and theater departments and enrich the cultural environment of the area. The 318,000-square-foot complex will contain 30 classrooms, 100 offices, 50 practice and rehearsal rooms, and a performing arts library, as well as a 1,200-seat concert hall, a 300-seat recital hall, a 650-seat proscenium theater, a 200-seat dance studio, a 200-seat experimental theater, and a full-service restaurant.

The center's performance spaces will host student productions as well as professional touring companies and local community groups. Funding for the center's construction has been provided by the State of Maryland, Prince George's County, the University of Maryland and private gifts.

"The Clarice Smith Center for the Performing Arts is going to be a cultural beacon for this university and for the county and the state," Mote says. "Generations of performing artists will have the opportunity to develop their creativity, and all of us will have our lives enriched by the events that will be offered in this outstanding facility, which has been made even more special by Clarice's generosity."

Richard Price, interim executive director for the center says, "Clarice Smith is not only generous, she is also a woman of great vision who knows that the Clarice Smith Center for the Performing Arts will radiate grace, beauty and creativity in its form and in its function."

Van Munching Hall houses the Robert H. Smith School

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Celebrating Achievements in Accessibility and Awareness of Disability Issues

There are some very special people at the University of Maryland. People who care about equal access for all to our educational and extracurricular programs. People who have taken steps to turn their caring into action. Each year the President's Commission on Disability Issues looks over the campus and selects a few individuals, groups, and/or programs that stand out for their actions which make the University of Maryland a better place for members of the campus community with disabilities.

They may have participated in direct service and/or in raising awareness of disability issues. This year the Commission has chosen three individuals, one group, and one program to receive the Disability Achievement Award.

The campus community is invited to the reception and awards ceremony held from 3:30 to 5 p.m., Wednesday, April 28 in the Maryland Room, Marie Mount Hall. President Mote will present awards to the following:

Program Disability Achievement Award

In September 1972, under the direction of Daniel Leviton, the Adult Health and Development Program (AHDP) opened its doors as the first multi-ethnic, interracial, intergenerational health promotion and rehabilitation program in the country. A partially self-supporting academic course, Medical School Elective, and volunteer program AHDP trains 70-90 students and volunteers each semester to work one-on-one with older adults, many of who cope with significant disabilities. Working with residents of the Washington DC Veterans Affairs Medical Center's Nursing Home and local community group homes, these students and volunteers have learned much about the psychological aspects and the coping mechanisms associated with living with a disability or debilitating illness. Today, the AHDP is the model for the National Network for Intergenerational Health (NNIH).

John W. King Staff Disability Achievement Awards

Across campus, in the School of Architecture, is a man who custom builds a new studio desk every semester to make life easier for one student.

Michael Arnold has been the driving force in the school's efforts to make their facilities truly accessible to all, taking their building from one of the campus' least ADA-compliant facilities to one which is sought out by faculty with students needing accessibility. Arnold doesn't wait until accessibility problems arise, but proactively looks for problem areas and initiates problem-solving.

The annual "Celebration of Leadership and Academic Excellence among Students with Disabilities" at Maryland found exemplary support from Randy Sandifer, a staff member in Physical Plant. Sandifer, a member of the Pikesville-Randallstown Lions Club, has always had a focus to serve those with physical impairments. He has dedicated many hours to a summer camp specifically for sight- and hearing-impaired children. Learning of the annual celebration ceremony, he made his connections count. He solicited and gained funds from several Lions Clubs to support multiple scholarships awarded to deserving students with disabilities who also contribute to community service efforts and maintain excellent GPAs.

Student Group Disability Achievement Award and Student Disability Achievement Award

You may have seen the work of Michael Kerr and the Pi Kappa Phi fraternity on campus. Sponsoring PUSH (People Understanding the Severely Handicapped), Pi Kappa Phi has raised both awareness of disability issues on campus and funds for accessibility projects in which they personally wielded hammers and paintbrushes. The projects included a fully accessible garden and a playground for children with disabilities. Mike Kerr, a member of Pi Kappa Phi, also took part in a 63-day, cross-country bicycle ride, Journey of Hope, as a fund raiser and awareness activity.

Edna Szymanski Appointed New Dean of the College of Education

Edna Szymanski has been appointed dean of the College of Education at the University of Maryland, College Park, effective July 1. She brings to the position a dynamic background in teaching, research and administration.

"We are very impressed by her knowledge, energy and enthusiasm for education, the faculty, students and staff will love working with her, she's a delight," says Irwin Goldstein, dean of College of Behavioral and Social Science and chair of the search committee.

Szymanski comes to Maryland from the University of Wisconsin at Madison where she was associate dean of the School of Education and director of the Rehabilitation Research and Training Center on Career Development. She also served as chair and professor in the Department of Rehabilitation Psychology and Special Education. She has received high recognition for her work as recipient of the 1997 American Rehabilitation Counseling Association Distinguished Professional Award and was named a Fellow of the University of Wisconsin-Madison Teaching Academy.

"Part of my plan is to help strengthen relationships with schools, state and community agencies; this will help increase the assets of the College of

Education and improve the lives of the citizens of the state," Szymanski says. "I am extremely excited about working with the university system and being part of shaping the excellence of a college that is becoming a leader in education."

Szymanski serves as chair on the National Council on Rehabilitation Education and as a member on the editorial boards of professional journals including the *Journal of Rehabilitation* and *Journal of Vocational Rehabilitation*. She is also co-editor of *The Rehabilitation Counseling Bulletin*. Szymanski also serves as chair of the campus Retirement Association, an organization designed to link the strengths of university retirees to campus and community life.

Szymanski received her bachelor's degree from Rensselaer Polytechnic Institute, her master's degree from University of Scranton, and her doctoral degree from the University of Texas at Austin. She is the author or co-author of five books and more than 80 articles and contributions to edited volumes on topics, including rehabilitation education, special education counseling, career planning, work and disability issues.

Szymanski succeeds Willis Hawley who left the deanship to head the National Partnership for Excellence and Accountability in Teaching.

College of Journalism Dean Relinquishes Position, Will Remain on Faculty

After providing leadership to faculty and students in the College of Journalism for nearly two decades, Reese Cleghorn, the university's longest-sitting dean, announced that he plans to step-down from the position in June 2000. However, will remain a member of the university faculty.

"At the time I go out of office, I will be 70 years old," Cleghorn says. "It's the turn of the millennium ... the beginning of a new era. I thought it was pretty good timing."

Since his appointment in 1981, Cleghorn, who was named Freedom Forum's 1995 "Journalism Administrator of the Year" along with his colleagues on the college's faculty, implemented several plans and programs to achieve excellence and position the College of Journalism as a nationally top-ranked school for aspiring journalists.

Upon assuming the role of dean, Cleghorn, the college's faculty and a newly established Board of Visitors, developed a five-year excellence plan called "Toward 1990: Creating a Model Professional School." The plan demonstrated ways for the college to build its future and resulted in an increase in students of color, radio and broadcast facility upgrades, a smaller but higher-quality undergraduate enrollment and an expanded master's and doctoral program.

In 1988, a national assessment of journalism education by the Gannett Center for Media Studies at Columbia University ranked Maryland in a listing of "Eleven Exemplary Journalism Schools." Jerrold Footlick, the report's author described the list as "those deserving of imitation."

Cleghorn was also instrumental

in bringing the national monthly industry magazine *American Journalism Review* (AJR) to the college in 1987, and has since served as publisher. Also, under Cleghorn's leadership, the National Association of Black Journalists relocated its national headquarters to the College Park campus; the creation of the Knight Center for Specialized Journalism, the Hubert Humphrey Journalism Fellows Program and the Casey Journalism Center for Children and Families brought new professional outreach programs to the college.

Cleghorn's most recent initiative began in 1997 and will launch a new "unified" journalism curriculum at the start of the 1999-2000 academic year. With the advertising sequence nearly phased out and the college's number one nationally ranked public relations sequence moving to the university's Department of Communication in July, the college is embarking on a new curriculum without sequences - specialty focused areas of study.

University of Maryland's Senior Vice President for Academic Affairs and Provost Gregory Geoffroy will appoint a committee to begin a

national search to fill Cleghorn's position. Following the appointment of a new dean, Cleghorn will remain with the college as a tenured full professor, where he plans to write and teach.



Reese Cleghorn

Outlook

Outlook is the weekly faculty-staff newspaper serving the University of Maryland campus community. William Destler, Interim Vice President for University Advancement; Teresa Flannery, Executive Director of University Communications and Director of Marketing; George Cathcart, Executive Editor; Janet Chismar, Acting Editor; Londa Scott Forté, Assistant Editor; Vaishali Honawar, Graduate Assistant; Phillip Wirtz, Editorial Intern. Letters to the editor, story suggestions and campus information are welcome. Please submit all material two weeks before the Tuesday of publication. Send material to Editor, Outlook, 2101 Turner Hall, College Park, MD 20742. Telephone (301) 405-4629; e-mail outlook@accmail.umd.edu; fax (301) 314-9344. Outlook can be found online at www.inform.umd.edu/outlook/

Mote Stresses Drive Toward Greatness in Inaugural Address

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identity."

The burden of establishing a culture of excellence falls mainly on the faculty, Mote said, who must "push themselves and all of us to be better than we are and yet never be satisfied."

As examples, Mote cited the faculty of the A. James Clark School of Engineering, who set out in 1994 to achieve specific lofty goals in research funding and reputation, and Distinguished University Professor Ira Berlin, who conceived the

College Park Scholars program to "transform the undergraduate experience" and "make the big store small."

"To become a great research university, the faculty must never be satisfied with the good, and their quest for the best must be an unrelenting pursuit," Mote said. The university's second step toward greatness is the enrichment of the educational experience for all students, he said.

"Getting admitted to Maryland is quite an achievement these days," Mote said, noting the mean grade point average for newly admitted students for fall 1999 is 3.5, compared with 3.0 in 1990.

"In the coming years, because of increasing numbers of highly qualified applicants and a fixed number of places, we will admit a smaller percentage," Mote said. "It will

need did not interfere with student success.

The third step to greatness is the development of a stronger "Maryland Family" of friends and alumni. Noting that alumni "enlarge our impact on society [and] reflect our quality and our goals and successes," Mote vowed to re-open connections with graduates who have not been involved with the university in many years.

"We are opening ourselves up in new ways, displaying our treasures, and offering you opportunities to become a part of the life of the university again," Mote promised. "We will also develop new programs to bring you to the campus

in more intimate settings with faculty, students and campus leaders, and we will take ourselves out into the community, too."

Mote said the next president of the university will be able to "tell Charles Benedict Calvert that his proclamation has finally come to pass.

"Today we continue our climb towards that future with enthusiasm and conviction," he said, adding, "Come with us."

To see the complete text of
President Mote's inaugural address, visit
www.umd.edu/PRES/inaugural.html
on the World Wide Web

become more and more important that everyone who makes it over the admissions bar have a rich educational experience here."

Mote said the two major barriers to such a rich experience are financial hardship and incidents of intolerance. He vowed to respond "with all my power and conviction" to acts of intolerance, and to raise funds for need-based scholarships to ensure that financial



More than 200 faculty, staff and administrators in full regalia lined up along Regents Drive to in march in the inaugural procession.

The Role of a Research University

Pondering the role of the research university in the 21st Century, three university presidents, University System of Maryland Chancellor Donald Langenberg, and an auditorium of distinguished guests engaged in lively debate at last Friday's higher education forum, the lead-off activity of President Dan Mote's Inaugural Day celebration.

Service to the community, mounting external pressures, and "expertise as king" are some of the key issues that are shaping, or will shape, the face of large research institutions, according to the panel of three presenters. Joining President Mote on the podium in Van Munching Hall's Tyser Auditorium were William Brody, president of Johns Hopkins University, and Judith Rodin, president of the University of Pennsylvania.

Presidents from the University of Chicago, George Mason University, and the University of Maryland, Baltimore County, as well as University of Maryland faculty and leaders from the private sector offered additional comments and raised questions at the conclusion of the panel discussion.

Brody argued that what matters most in the forthcoming information economy is expertise and that the knowledge generated by research universities provides it. "Learning takes place through the discovery of knowledge as much as through the study of existing knowledge," Brody noted.

He sees the university of the future as a "fuzzy, amorphous structure" comprised of a collection of world-class experts who work in teams. Faculty will be shared across traditional university boundaries and disciplines.

Rodin argued that a university's civic role will become increasingly vital in the next century. "Robust discourse communities should be at the center of research universities," she said. The research university should foster such debate and communicate, interpret and apply knowledge to societal problems. Universities must embrace commitment to public service, she said.

The last panelist to address the audience, Mote conceded he is usually more upbeat, but on this day wanted to discuss whether research universities are "losing control." He said that external forces, such as budget, student and faculty demands, state expectations and fundraising activities seem to be driving programmatic decisions. And, he added, recognition of the problem doesn't prevent it.

"Is intellectual content being coopted by market demand?" Mote pondered. "Is training becoming more important than education?"

As a nation, we need to move back toward university independence, he said. "We need to reassert our values to society, the value of education and intellect, and we must be able to speak out on national issues."

—JANET CHISMAR

University Announces Two Gifts Totaling \$21 Million

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of Business and the Maryland School of Public Affairs. Van Munching's \$5 million gift to the business school in 1993 was the largest donation the university had received up to that time. In 1997 he gave another \$2.5 million to establish the Leo Van Munching Jr. Undergraduate Business Career Center. Van Munching's combined gifts of \$13.5 million make him the third largest donor to the university, after the Smiths and A. James Clark.

"My continuing support reflects the conviction I hold that the business school, both graduate and undergraduate, is on the right track, maximizing the benefits for the students and therefore the university," Van Munching says.

The planned expansion of Van Munching Hall will double the business school's existing space, and will create an information technology infrastructure and learning environment

that will be among the most advanced in the nation, as well as additional classrooms, an expanded career services center and a new Knowledge and Information Management Center.

"Leo Van Munching Jr.'s enormous generosity will benefit current and future generations of students and serves as an example for those seeking to make an impact on the world," says Howard Frank, dean of the Robert H. Smith School of Business.

The University of Maryland is currently engaged in a \$350 million fund-raising campaign called Bold Vision • Bright Future. As of the end of March, campaign officials said they had raised about \$203 million. The seven-year campaign ends June 30, 2002.

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Your Guide to University Events
April 27 - May 6

April 27

10 a.m.-4 p.m. Sheo Student Health Fair. Student Health Education Outreach Health Fair. Free Refreshments. Atrium, Stamp Student Union. 864-9060.

12:30 p.m. School of Music: "Opera Week 1999: A program of opera scenes and a dance combat demonstration." Performances include works of Puccini, Donizetti, Massenet and Floyd. Ulrich Recital Hall, Tawes Fine Arts Bldg.

4 p.m. Institute for Physical Science and Technology Shih-I Pai lecture: "Emergence of Patterns in Nonequilibrium Systems." Harry Swinney, University of Texas at Austin. 1410 Physics Bldg. 5-4877.

April 28

Noon-1 p.m. "How to Access TERP Online Workshops." Multi-Purpose Room, Holzapfel Hall. 4-7225.

Noon-1 p.m. Research & Development Presentations: "Cross-Cultural Issues in Industrial/Organizational Psychology," Michelle Gelfand. 0106-0114 Counseling Center, Shoemaker Bldg.

2:30 p.m. School of Music: "Opera Week 1999: Opera Workshop (Undergraduate Students)." Scenes by Mozart, Donizetti, Massenet, Verdi, Gilbert & Sullivan, Loesser and Delibes. 2102 Tawes Fine Arts Bldg. 5-1150.

4-5 p.m. Department of Astronomy lecture. Ethan Vishniac, Johns Hopkins. 2400 Computer & Space Sciences Bldg.

5 p.m. School of Music: "Opera Week 1999: Scenes from the Opera and operetta Repertoire." Scenes from Handel's 'Partenope.' Ulrich Recital Hall, Tawes Fine Arts Bldg. 5-1150.

6-9 p.m. Peer Training Program: "Advanced HTML." This class takes a more advanced look at HTML coding. 4404 Computer & Space Sciences Bldg. 5-2940.*

8 p.m. School of Music: "Opera Week 1999: A program of opera scenes and a dance combat demonstration." Performances include works of Puccini, Donizetti, Massenet and Floyd. Ulrich Recital Hall, Tawes Fine Arts Bldg. 5-1150.

8-10 p.m. "The Mineola Twins," by Paula Vogel. A daring new comedy about two sisters from Mineola and their identity, their politics and their sexuality told through "seven scenes, four dreams and five wigs." Pugliese Theatre. 5-2201.*

April 29

3:30 p.m. Department of Meteorology: "Polar Amplifications or Tropical Dampification? Mechanisms of Constraining Tropical Temperatures," Dennis Hartmann, University of Washington, Seattle. 2400 Computer & Space Sciences Bldg.

4:30-7:30 p.m. Peer Training Program: "Intermediate Adobe PhotoShop." This class covers more advanced features of PhotoShop. 4404 Computer & Space Sciences Bldg. 5-2940.*

8-9 p.m. School of Public Affairs: "Two Women of Peace: A Conversation with Lea Rabin and Jehan Sadat." Moderated by Syndicated Columnist Georgie Anne Geyer. Tawes Theater. (202) 862-4879.

8 p.m. School of Music: "An Evening of Chamber Music." Evelyn Elsing, cello; Robert McCoy, piano; and David Salness, violin. Ulrich Recital Hall, Tawes Fine Arts Bldg. 5-1150.

8-10 p.m. "The Mineola Twins," by Paula Vogel. A daring new comedy about two sisters from Mineola and their identity, their politics and their sexuality told through "seven scenes, four dreams and five wigs." Pugliese Theatre. 5-2201.*

April 30

1 p.m. Department of Materials and Nuclear Engineering: "Laser Altimetry for Earth and Planetary Applications," Robert Afzal, NASA. 2110 Chemical & Nuclear Engineering Bldg. 5-5207.

2-3 p.m. "How to Access TERP Online Workshops." Multi-Purpose Room, Holzapfel Hall, Ground Floor. 4-7225.

8-10 p.m. "The Mineola Twins," by Paula Vogel. A daring new comedy about two sisters from Mineola and their identity, their politics and their sexuality told through "seven scenes, four dreams and five wigs." Pugliese Theatre. 5-2201.*

May 1

5:30 p.m. School of Music: "Opera Week 1999: Opera Workshop (Undergraduate Students)." Scenes by Mozart, Donizetti, Massenet, Verdi, Gilbert & Sullivan, Loesser and Delibes. 2102 Tawes Fine Arts Bldg. 5-1150.

University Theatre

A Comedy of Politics and Sisterhood

University Theatre presents the comedy "The Mineola Twins" April 28-May 9. Performances of the Paula Vogel play take place in Pugliese

Theatre in the Tawes Fine Arts Building April 28-May 1 and May 4-8 at 8 p.m. and May 2 and 9 at 2 p.m.

"The Mineola Twins" is a comedy about the divergent social and political lives of twin sisters from Long Island. Written by Pulitzer Prize-winning playwright Paula Vogel, "The Mineola Twins" follows the escapades of "good" twin Myrna and "evil" twin Myra from their youth in the '50s through the Bush administration.

"This play is an interesting mix of humor and pathos," says Catherine Schuler, director of the production. "The irony of twins who are from the same womb yet on opposite sides of the political spectrum make the play something of a political farce. Picture someone with the politics of a Jesse Helms or an Arianna Huffington thrown together with Gloria Steinem for life.

"Paula Vogel is a witty playwright who writes some incredibly witty dialogue, yet the play is no piece of fluff. It offers a reflection of the politics of hatred, the depiction of the culture wars, and how the two sisters respond to it," says Schuler, an associate professor of theatre history and theory at the University of Maryland who

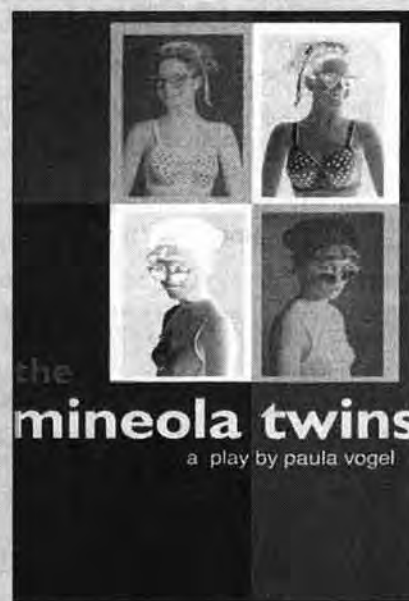
recently won the Hewitt Award for Excellence in Theatre History for her book "Women in Russian Theatre: The Actress in the Silver Age."

Her recent directing credits for University Theatre include "Peter Pansy's Excellent Adventure," "Abducting Diana," and "The London Merchantperson."

Scenic design is by David McKeever, a senior theatre major, who recently assisted with lighting design for the University Theatre production "Dancing at Lughnasa." Costume design is by Renate Maile-Moscowitz, an M.F.A. student in costume design. Lighting designer Robert L. Scharff is a first-year M.F.A. student in lighting design. His recent credits include lighting design for "Look! We Have Come

Through!" at Olney Theatre Centre for the Arts. James Brown, a sophomore theatre and molecular biology major, has been a sound assistant for Tawes Theatre for two semesters. "The Mineola Twins" is his first sound design for University Theatre.

Tickets are \$10 standard admission and \$7 for students and senior citizens. Special group discount rates are also available for groups of 10 or more. For reservations or additional information call the University Theatre Box Office at 405-2201 weekdays from 11 a.m. to 4 p.m.



8 p.m. School of Music: "Opera Week 1999: Scenes from the Opera and Operetta Repertoire." Scenes from Handel's 'Partenope.' Ulrich Recital Hall, Tawes Fine Arts Bldg. 5-1150.

4 p.m. Committee on the History and Philosophy of Science: "Quantum Logic Gates Based on Exchange Interactions," James Franson, Johns Hopkins University. 1140 Plant Sciences Bldg. five1@physics.umd.edu.

7-9 p.m. Writers Here & Now: Spring Readings. Student Prize Reading, the winners of the Katherine Anne Porter Fiction Prize and the Academy of American Poets. McKeldin Library. 5-3820.

8-10 p.m. "The Mineola Twins," by Paula Vogel. A daring new comedy about two sisters from Mineola and their identity, their politics and their sexuality told through "seven scenes, four dreams and five wigs." Pugliese Theatre. 5-2201.*

May 2

2-4 p.m. "The Mineola Twins," by Paula Vogel. A daring new comedy about two sisters from Mineola and their identity, their politics and their sexuality told through "seven scenes, four dreams and five wigs." Pugliese Theatre. 5-2201.*

8 p.m. School of Music: "Celebrating Goethe: Songs and Poetry." Readings from Goethe and vocal music. Ulrich Recital Hall, Tawes Fine Arts Bldg. 5-1150.

May 4

4 p.m. Physics Department: "The Logic of the LHC: How Do We Know Where to Look If We Don't Know What We are Going to Find?" Howard M. Georgi, Harvard University. 1410 Physics Bldg. 5-3401.

May 5

10 a.m.-2:30 p.m. Study Abroad Information Fair: Winterterm. Come learn more about study abroad and the new opportunities for Winterterm 2000. Stamp Student Union. 4-7746.

Noon-1 p.m. Research & Development Presentations: "Measuring the Working Alliance in Advisor-Advisee Relationships in Graduate School," Lewis Schollosser. 0106-0114 Counseling Center, Shoemaker Bldg.

4-5 p.m. Department of Astronomy: "Dusty Lyman Alpha Emitters at High Redshift," Marco Spaans. 2400 Computer & Space Sciences Bldg.

May 3

4-5:30 p.m. Teaching Strategies in Cultural Studies: "New Frontiers: The Teaching of Cyberculture," Katie King, Women's Studies, and David Silver, American Studies. 3140 Engineering Bldg. vevgh@otal.umd.edu.

May 6

3:30 p.m. Department of Meteorology: "Arctic Sea Ice Variability in the Context of Recent Atmospheric Circulation Trends," Clara Deser, NCAR. 2400 Computer & Space Sciences Bldg.

Calendar Guide

Calendar phone numbers listed as 4-xxxx or 5-xxxx stand for the prefix 314- or 405. Events are free and open to the public unless noted by an asterisk (*). Calendar information for Outlook is compiled from a combination of inform's calendars and submissions to the Outlook office. To reach the calendar editor, call 405-7615 or e-mail outlook@accmail.umd.edu.

Inventions of the Year Announced by OTL

University Researchers Develop Innovative Technologies

The University of Maryland's three inventions of the year for 1998 are: a graduate student-developed method to prevent phosphorus in farm animal waste from contaminating the Chesapeake Bay and its tributaries; a design for a microscope that, for the first time, would be able to pinpoint the location of defects that commonly occur in computer chips during manufacturing; and an efficient method for compressing digital images that allows a viewer to quickly and clearly see one or more regions of interest without having to wait for the full image to be received over the Internet.

The inventors for these three new technologies will receive awards today at the 12th annual Invention of the Year reception sponsored by the university's Office of Technology Liaison. Inventors will each receive a plaque and will share \$500 in award money. University of Maryland President Dan Mote will present the awards. Winning inventions - one from each of three areas: physical, life and information science - were chosen by an independent panel. Inventions were selected based on creativity, novelty and potential overall benefit to society.

Life Science

In this category the winning invention is a process for binding phosphorus contained in animal waste and thus preventing it from leaching out.

Developed by **Kristen Hughes**, a graduate student researcher in the department of biological resources engineering, the process mixes a by-product generated by a Maryland corporation with agricultural animal waste to bind phosphorus and make it insoluble.

The mixture that results can then be applied to agriculture fields without fear of adding unwanted nutrients to the water that drains from fields into watersheds. Millennium Inorganic Chemicals in Hunt Valley, Md., whose by-product is used in the mixture, has signed an agreement to fund further application research and marketing for the process.

Phosphorus lost from agricultural operations through rain water runoff and leaching is believed to contribute to outbreaks of the toxic stage of the organism *Pfiesteria piscicida* in areas of the Chesapeake Bay and its tributaries. Water soluble phosphorous is present

in abundant amounts in poultry manure, and 800,000 tons of poultry manure are produced each year on the Delmarva Peninsula, which forms the eastern shore of the Chesapeake Bay and is shared by Maryland, Delaware and Virginia. Some of this excess manure is disposed of by applying it to farmland. In addition to *Pfiesteria piscicida* outbreaks, excess phosphorus entering streams and rivers also can lead to blooms of algae and the possible loss of dissolved oxygen, endangering fish and submerged grasses.

Physical Science

Frederick Wellstood, of the department of physics and the Materials Research Science and Engineering Center and **Matthew Kenyon** and **Christopher Lobb** of the department of physics have designed a type of microscope that can pinpoint the location of the

most common type of wiring defect that occurs during the manufacture of computer chips. Such wiring defects in computer chips and multi-chip modules are a serious manufacturing problem. Currently, most types of circuit faults cannot be precisely located. However if the exact location of such defects could be found, then the likely cause could be ascertained, and changes could be made in the computer chip design or fabrication process to correct the problem.

The near-field Scanning Single Electron Transistor (SSET) microscope, conceived and under development by the University of Maryland researchers, can pinpoint the location of unintended electrical opens, the most common type of computer chip defect. An open can arise for a variety of reasons such as a failed connection between chip

layers. If the open can be precisely located, then there are a variety of well-established, powerful analysis techniques that can be used to diagnose and correct the cause of the problem.

The design of the university's near-field SSET microscope is based on another type of microscope - known as a scanning SQUID microscope - that was designed by the university and has been successfully commercialized by Neocera, Inc. of Beltsville, Md. This earlier microscope design uses a Superconducting Quantum Interference

Device (SQUID) as a magnetic field sensor, while the present invention uses a Single Electron Transistor (SET) as an electric field sensor.

In the design of the present invention the SET is mounted in a vacuum enclosure fitted with bellows and a thin window. Within this housing the SET is cooled to near-absolute zero [the point at which a substance would have no molecular motion or heat (-273.15 C or -459.67 F)] by a cryogenic device known as a "cold finger." Samples

are then positioned to the air side of the window using a conventional movable platform in the same way that samples are positioned under the lens of an optical microscope. One merely applies a voltage to the suspected open line and scans the sample while recording the output from the SET sensor. Since the SET is extremely sensitive to voltage or to induced charge, the location of the open will show up as an abrupt change in the field along the wire. As a result, the instrument can non-intrusively resolve fine details in microcircuit wiring, even if the wiring layers are hidden under a chip. Other long range applications for the invention include looking at neurological signals in biological systems, and detecting chemical reactions which cause corrosion of metal.

Information Science

When today's high-speed computers access local storage devices such as a local hard drive or local floppy drive, significant amounts of information can be quickly accessed. However, when seeking to access data from a remote storage location, such as over the Internet, data transmission rates are significantly slower. Memory-intensive photographs and other graphical images require significant transmission time over slow network communications. Compression methods have therefore been developed to reduce the amount of storage space required to store images and reduce transmission time.

University of Maryland electrical engineering professor and chairman **Nariman Farvardin** and Mitsubishi Corporation's **Eiji Atsumi** now have moved compression technology forward by developing an efficient method for compressing digital images that allows a viewer to quickly and clearly see one or more regions of interest in a picture without having to

wait for the full image to be transmitted through the Internet from a remote storage site. The regions of interest can be selected either by the user of the system that is initially encoding the image, or by the user of the system that receives and decodes the image. For example, if user A is sending a photograph of five people to user B, user A could select the face of one person in the photograph as a region of interest. The entire image

would then begin to be transmitted to user B; however on user B's computer the resolution of the selected face would improve faster than the resolution of the remaining portions of the photograph. Similarly, user B who is receiving the photograph, could identify a second face that would also be transmitted faster and with higher resolution. Transmission times and storage requirements thus can be reduced. Other applications for this invention include digital cameras and digitally reproduced motion pictures.

The university hit a milestone of inventiveness in 1998 by reaching the 100 mark for new inventions disclosed by researchers in one year. The Office of Technology Liaison's technology transfer rate is one of the highest in the nation, licensing one technology for every two disclosed. This places the University of Maryland 14th out of 131 research universities surveyed by the Association of University

Technology Managers.

In the past 12 years, the Office of Technology Liaison has licensed more than 363 university inventions to industry, resulting in 91 products on the market. These technologies so far have earned \$14.7 million for the university. Many of the technologies have been created from partnerships between the university, government and industry. Products that have resulted from such collaborations include a high-speed Internet access service produced with the Maryland-based Hughes Network Systems, a poultry vaccine created with Delaware-based Intervet, Inc., and an energy-saving refrigerator designed with the EPA and South Korean-based Samsung Electronics Co., Ltd. In addition, the Office of Technology Liaison has worked with university inventors to create a total of 10 new businesses with annual sales of \$3 million.



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GRID Mentor of the Year



President Dan Mote congratulates Mark Turner, professor of English, who was named Faculty Mentor of the Year at the Graduate Research Interaction Day (GRID) luncheon held in Colony Ballroom of Stamp Union on April 22. Turner was nominated for the honor by a number of students who praised his commitment and caring, both in and out of the classroom. This was the first year for the award, given by the Graduate Student Government.

Study Reveals Higher Cigarette Prices Reduce Smoking By Pregnant Women

Higher cigarette prices increase the number of pregnant women who quit smoking and also improve the birth weight of the babies born to those women, according to a new study published in the April issue of the *Journal of Public Economics*. The study shows that every 10 percent increase in cigarette prices results in a 5 percent drop in smoking rates among pregnant women.

"Many women quit smoking during pregnancy," according to one of the authors, economics professor William N. Evans of the University of Maryland. "This study shows that an additional number of women would quit if cigarette prices were to go up during pregnancy."

"The good news is that the drop in smoking rates by pregnant women in response to higher cigarette prices results in an increase in the birth weight of the babies born to these women," Evans says. "The bad news is that the pregnant women who continue to smoke don't smoke any less because of the higher prices."

Jeanne Ringel of Louisiana State University co-authored the study. Evans and Ringel examined smoking rates among women who gave birth before and after state tax hikes. Based on this study, the authors estimated a \$1.10 increase in cigarette prices would reduce maternal smoking rates by about 30 percent and reduce the rate of low birth weights by about 5 percent.

The study, funded by the Substance Abuse Policy Research Program of The Robert Wood Johnson Foundation, is the first to show that pregnant women are responsive to changes in cigarette prices.

The data for this study came from nearly 10 million births in the national Natality Detail File of the National Center for Health Statistics

which contains pregnancy and birth-related information, including information about birth outcomes, demographic characteristics and maternal smoking.

The three most important behavioral risk factors associated with low birth weight are low maternal pre-pregnancy weight, low maternal weight gain during pregnancy, and maternal smoking during pregnancy.

"Several medical experts have estimated that cigarette smoking accounts for up to 20 percent of all low birth weight in the country," Evans says.

Other factors that might affect birth weight are age and race of the mother, sex of the infant, mother's educational level, marital status, and the level of prenatal care received by the mother during pregnancy. The effect of rising cigarette prices was independent of these factors.

Some groups argue that increasing cigarette prices in one region may encourage smokers to purchase cigarettes across borders in other areas where prices may be lower.

"The higher quit-rate among pregnant women can be seen even after accounting for cross-border purchases," Evans says. "In fact, we also took into account the potential effect of clean indoor air laws on smoking by pregnant women, and were still able to observe the impact of rising cigarette prices on smoking rates among pregnant women."

The Robert Wood Johnson Foundation's Substance Abuse Policy Research Program is a \$29 million initiative and provides funds for various research projects that examine public and private policies related to tobacco, alcohol and illicit drug use.

NASA Chooses Gemstone Students to Help Develop Mars Exploration Plan

A team of students in the University of Maryland's Gemstone Program has been selected to help form business plans for the future exploration of Mars.

The Gemstone group was one of six teams chosen as part of the inaugural "NASA Means Business Student Competition," a new national program that directly involves university students in real NASA programs and missions. The Maryland students submitted a proposal to write a business plan for one role that a commercial entity might play in the NASA Mars exploration strategy. The business plan will be for a company that would develop on-site resource use on the surface of Mars. This would provide space craft that have arrived on Mars with a place to refuel for its return trip to Earth. The business plan will address technological and economic considerations involved in producing and stockpiling return fuel on Mars prior to the first human expedition.

"We are providing the students with a very unique educational opportunity, and they are in turn providing us with valuable insight from their varying academic backgrounds,"

— Burke Fort, director of the

"NASA Means Business Student Competition"

Now that the selection has been made, the students are investigating issues of collaboration between NASA and such an outside corporation, a collaboration that would be imperative for future Mars exploration. The

NASA Mars mission planners will review the team's work with the expectations of incorporating it into the official NASA Mars Exploration Business Plan.

"Joint ventures between NASA and private industry will become increasingly prominent in the future of space exploration and this reality was key in the forming of our proposal," says Dan Ragan, leader of the Gemstone student team. "Due to the government funding situation, the only realistic avenue to pursue was an independent venture."

According to Burke Fort, director of the competition, the program will benefit both the students involved as well as NASA. "We are providing the students with a very unique educational opportunity, and they, in turn, are providing us with valuable insight from their varying academic backgrounds," adds Fort, a member of the Texas Space Consortium.

Members of the Gemstone team have majors ranging from business to computer engineering to criminal justice. NASA will view the students' work in May, when all those involved in the program will travel to Houston for a final presentation.

The University of Maryland's Gemstone Program attracts some of the nation's top students. Students in the program spend all four of their college years in multidisciplinary teams addressing some of society's most pressing problems in areas such as energy efficient transportation, urban housing, and waste management and disposal. The teams consist of about a dozen undergraduates drawn from engineering, business and management, behavioral and social sciences, and the humanities. The teams take special courses and meet weekly during each academic year to work on the solution to the problem they have selected. Their work culminates in a book-length senior team thesis that is reviewed by faculty advisors and selected high-level industry experts.

Engineering Friendships for Life

RSVC Volunteers Help Students with their Studies



Friends since 1946, Mosher and Stern have tutored University of Maryland mechanical engineering students for more than twenty years.

Inside room 1103 of the Engineering Classroom building, two retired mechanical engineering professionals, Ernest Mosher and Jesse Stern, eagerly share enlightening information with students who are having difficulties with homework assignments. But the students rushing in receive more than class help from the tutors - they often end up with two new friends.

"The student comes to the university to get an education, but when the student comes in here, he/she gets a friend," says Stern. "We are here to help students and we enjoy them as people," he adds.

Every Tuesday and Wednesday, from noon to 4pm, Mosher and Stern, friends themselves since 1946, have dedicated their time and knowledge to helping students in the field of mechanical engineering. Their friendship developed after World War II, while working for the

Service Corps (RVSC), Mosher and Stern, along with another colleague Bill Rowland have enjoyed being there for the students. "We give them a shoulder to cry on if they need it," says Stern. And because of the mutual commitment to education these men hold, students are able to increase their understanding about certain problems, which may seem frustrating and confusing at first.

The tutoring service, provided by the department of engineering, is available throughout the week. Quite a number of students take advantage of the opportunity. In a typical afternoon, Mosher and Stern tutor from four to 34 students. "We are committed to taking care of all students who come in," says Stern. "And it doesn't cost them anything to come in," he adds.

Students are welcomed the moment that they enter room 1103, the tutoring center, because

Mosher and Stern provide a friendly and helpful environment. "It is open door, there are no appointments," says Mosher.

Mosher and Stern have enjoyed sharing their knowledge with students who are pursuing a career in mechanical engineering. "We like it here," says Stern. "The students here are well educated, they work hard and they are a pleasure to work with."

According to Stern, the most positive and significant change that has occurred over the years is the increasing number of women who are pursuing and are greatly interested in the profession of mechanical

engineering.

"There are a lot of great, competent female engineers and they are going to be great competitors for the male engineers, says Stern.

For Mosher and Stern, passing on secrets of success and beneficial skills to students is more than volunteer work. "It's been fun," says Stern.

—RENEE BRAITHWAITE



Ernest Mosher and Jesse Stern

same organization in Washington DC.

Since 1978, after hearing about an announcement requesting volunteers to tutor mechanical engineering students, Mosher and Stern began tutoring at the university at night. Then, when they retired from their professions in 1980, they decided to commit more of their time to students at the University of Maryland campus. "The future needs all the help it can get," jokes Mosher.

As participants of the Retired Volunteer



Mickey Moscynski, a graduate student in scenic design, was recently awarded the 1999 Jim Henson Award for Projects Related to Puppetry. He will officially receive the award on April 24, Maryland Day at the university.

Moscynski was given the award in support for his work as a puppet designer for University Theatre's 1999-2000 production of "The Fable of Macbeth." The production is an original adaptation of Shakespeare's "Macbeth."

Moscynski's recent credits include his work as scenic designer for University Theatre's production of "Picasso at the Lapin Agile." In the past, he has also worked as scenic artist for the Weston Playhouse in Vermont and scenic designer for the production "Dancing at Lughnasa" at the University of Miami in Oxford, Ohio.

"The Fable of Macbeth" will premiere Feb. 23, 2000, in Tawes Theatre.

Two faculty members and two alumni at the Department of Theatre were recently nominated for the 1999 Helen Hayes awards, given each year to outstanding accomplishments in dramatic productions in the Washington, D.C. area.

Daniel MacLean Wagner, associate professor in lighting design and director of undergraduate studies, received two nominations for lighting design in a resident production for "Nijinsky's Last Dance" at Signature Theatre. Wagner has been nominated for Helen Hayes awards 18 times in the past, and has won five times for Outstanding Lighting Design.

Daniel Conway, an assistant professor in scenic design, has been nominated for set design in a resident production for August Wilson's "Seven Guitars" at Studio Theatre. His recent credits include the University Theatre production of "Les Liaisons Dangereuses." Natasha Djukic and Zeljko Djukic, both alumni of the Department of Theatre, were nominated for their work on

"Quartet," an Open Theatre and TUTA (The Utopian Theatre Asylum) production. Natasha was nominated for costume design in a resident production, and Zeljko was nominated for outstanding director in a resident production. Recently, the two collaborated on the University Theatre's production, "The Seagull."

Three students, **Melanie Freed**, **Bryan Osborn** and **Maria Pletneva**, have won Barry M. Goldwater scholarships in science and mathematics. This competitive national scholarship is awarded annually to outstanding sophomores or juniors who demonstrate excellent potential for successful research careers in their chosen fields within the natural sciences, mathematics, or engineering.

This year 304 scholarships were awarded from a field of nearly 1200 students nominated nationwide. This is the first year that three Goldwater scholars were chosen from the University of Maryland.

Freed, a double major in astronomy and physics, intends to earn a Ph.D. in astronomy and pursue a research career at NASA. She is currently working with Ronald Oliverson at NASA Goddard Space Flight Center, studying the atmosphere of the Jovian moon.

Osborn, a double major in physics and mathematics, plans to earn a graduate degree and pursue his interest in computational physics. He is currently doing research at the Institute for Plasma Research on campus with Adil Hassam and Richard Ellis.

Pletneva is a double major in biochemistry and biology with a specialization in cell and molecular biology and genetics. She plans to earn both M.D. and Ph.D. degrees so she can pursue a career in clinical and laboratory research. Pletneva has been working with Kim Green at the National Institutes of Health, studying human caliciviruses, a causative agent of gastroenteritis.

TERPS SHOW THEIR SPIRIT DURING STUDENT ATHLETE DAY

Members of the number 5 ranked men's basketball team and other student-athletes from the University of Maryland welcomed about 175 at-risk youth to campus on April 16, for the Seventh Annual National Student Athlete Day.

Youth from Baltimore, Charles and Prince George's counties and Baltimore City arrived at the university and were greeted by student-athletes who led campus tours through the libraries, dorms, the recreation center, dining halls and other notable spots.

After lunch, non-contact sports competitions were held in the Armory, followed by an awards ceremony. Obinna Ekezie and Chrissie Winters, a University of Maryland alumna and assistant coach for the women's basketball team, par-

ticipated in the ceremony.

The event was sponsored by the Criminology Alumni Chapter, the Department of Athletics and the Returning Athletes program.

Donn Davis, president-elect of the university's Criminology Alumni Chapter and area director for the Department of Juvenile Justice, says: "We look at this as a prevention program, as a way to help kids who are struggling with motivation and learning in school. These kids are looking toward high school and the opportunity to play athletics, and we're sending the positive message that athletics and education go hand in hand."

Over the past five years Davis has expanded Student Athlete Day at the university from 30 at-risk students to more than 150.



Sophomore men's basketball forward Terence Morris signs autographs for local youth.

for your interest

events • lectures • seminars • awards • etc.

Children's Activities Needed

The Lakeland Stars and the College Park Scholars Advocates For Children Program are currently looking for participants for their program. Lakeland Stars is an after-school tutoring/mentoring program for some 20 second to sixth grade students from the Lakeland Elementary School who meet after school with their tutors on Mondays and Thursdays from 3:30-5:30 p.m.

Groups that could present the students and their tutors with a hands-on and fun-filled multicultural activity are needed for Mondays. Previous activities have included origami, Cuban singing and dancing and flag-making.

Engaging, fun-filled activities, not necessarily educational or multicultural, are needed for Thursdays.

If interested in filling any of the days through the end of the semester, contact Marc Weiser at (301) 474-9560 or weiser@wam.umd.edu

Documenting Maryland Day

Have you ever dreamed of being an archivist and preserving history? Here's your chance!! Please

help the University Archives document all the activities of our first-ever Maryland Day by sending copies of any flyers, brochures, posters or other open house items

you have produced to:

Anne Turkos, University Archivist, Archives and Manuscripts Department, McKeldin Library.

Thank you in advance for your help in creating a record of this landmark University of Maryland event. If you have any questions about this documentation effort or the holdings of the University

Archives, please contact Anne Turkos at 405-9060 or e-mail to at17@umail.umd.edu.

Service-Learning UTAs Sought

In fall 1999, the Center for Teaching Excellence and Community Service Programs will pilot the Undergraduate Teaching Assistant in Service-Learning Program.

The purpose of the program is to provide assistance to faculty who integrate service-learning into their teaching, help students explore the art of teaching, especially using service-learning pedagogy, support students and faculty as partners in connecting service-learning theory and practice.

Faculty and students may apply in pairs or individually. Faculty who apply individually will be matched with qualified students.

Faculty seeking service-learning UTAs need not have prior service-learning experience. Faculty mentors will have the opportunity to meet together three times during the semester to discuss successes, challenges and strategies in implementing service-learning.

Applications are available at

www.inform.umd.edu/CTE/

Completed applications are due by May 15. For more information, contact Marie Troppe, coordinator of service-learning, at 314-5387 or e-mail mtroppe@accmail.umd.edu.

Electronic Workplace Readiness Classes

The Division of Administrative Affairs is offering classes designed to prepare campus staff for the electronic workplace. These three- and one-half-hour classes are led by industry professionals and will focus on developing the basic Windows and Netscape browsing skills that are essential for the electronic workplace. The cost is \$50, payable to the Department of Personnel Services via an ISR, which can be brought to the class. The classes will be in the new Patapsco Training Facility and are being offered on two dates: Thursday, April 29, 8:30 a.m. - noon or 1-4:30 p.m., and Thursday, May 13, 8:30 a.m. - noon or 1-4:30 p.m. To enroll, call the ACC Help Desk at 405-7763.

MARYLAND DAY 1999

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